

Title (en)
SENSOR ARRANGEMENT FOR A LITHOGRAPHY SYSTEM, LITHOGRAPHY SYSTEM, AND METHOD FOR OPERATING A LITHOGRAPHY SYSTEM

Title (de)
SENSORANORDNUNG FÜR EINE LITHOGRAPHIEANLAGE, LITHOGRAPHIEANLAGE UND VERFAHREN ZUM BETREIBEN EINER LITHOGRAPHIEANLAGE

Title (fr)
ENSEMBLE DE CAPTEURS POUR UNE INSTALLATION DE LITHOGRAPHIE, INSTALLATION DE LITHOGRAPHIE ET PROCÉDÉ DE FONCTIONNEMENT D'UNE INSTALLATION DE LITHOGRAPHIE

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Abstract (en)
[origin: WO2017032706A1] A sensor arrangement (1) for detecting a position of an optical element in a lithography system, wherein the sensor arrangement (1) comprises: a first capacitive sensor device (2) which has a position-dependent variable first sensor capacity (CCS1) detectable with the aid of a first excitation signal (Vex1); a second capacitive sensor device (3) which has a position-dependent variable second sensor capacity (CCS2) detectable with the aid of a second excitation signal (Vex2); and comprising a control device (8) which is configured to generate the first and the second excitation signal (Vex1, Vex2) in such a way that charges, present at a parasitic capacity which can be associated with the first sensor device (2), compensate at least partially using charges, present at a parasitic capacity which can be associated with the second sensor device (3), via a signal path outside of the first and/or the second excitation signal path. The sensor arrangement can be favorably used in a lithography system and enables a high read-out and actuation frequency for sensor elements and actuators.

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